

REMARKS

STATUS OF THE CLAIMS

Claim 7, 9-14, 17-19, and 35-38 remain in the Application.

The Office rejected claims 7-15, 20, and 35-38 under 35 U.S.C. 103(a) as being unpatentable over *Behar* in view of *Manginell*.

The Office indicated that claims 16-19 would be allowable, but objected to these claims as being dependent upon a rejected base claim.

SUMMARY OF THE INVENTION

The present invention is directed a method for vaporizing a liquid or solid sample using a micropyrolyzer. The micropyrolyzer can perform heated chemistry by introduction of a reagent chemical to the sample prior to heating the sample. The micropyrolyzer comprises a substrate having a suspended membrane formed thereon and a resistive heating element disposed on the membrane for heating the sample. The micropyrolyzer can be constructed from semiconductor materials. The sample size can be less than 3 microliters and the heating rate can be 20 - 70°C per millisecond with very low power consumption.

SUMMARY OF THE ART

Behar, U.S. 4,710,354, discloses a method and device for heating of solid or liquid samples in small quantities comprising a sample holding rod that can be inserted into a tubular heated liner for pyrolysis of the sample.

Manginell et al., "Microfabrication of membrane-based devices by HARSE and combined HARSE/wet etching," describes high-aspect-ratio silicon etching that can be used to obtain thin supported membranes for use as microhotplates.

ARGUMENTS

CLAIM 7 HAS BEEN AMENDED TO INCLUDE THE LIMITATION OF CLAIM 16


The Office objected to claims 16-19 as being dependent upon a rejected base claim, but indicated that these claims would be allowable, if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Applicants request the

amendment of base claim 7 to include the limitation of allowable claim 16. Accordingly, Applicants submit that claim 7 is now in condition for allowance. Applicants submit that claims 9-14, 17-19, and 35-39, that depend from and further define claim 7, are also in condition for allowance. *See* MPEP 2143.03. Applicants request the cancellation of claims 15 and 16. Applicants urge that these amendments be entered, as they will place the application in condition for allowance. *See* MPEP 714.12.

CONCLUSION

Applicants urge that the claims as presented are now in condition for allowance. Applicants have responded within two months of the mailing date of the final office action. Therefore, Applicants request an advisory action or expeditious processing to issuance.

Respectfully submitted,



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CERTIFICATION UNDER 37 CFR 1.8

I hereby certify that this correspondence and documents referred to herein were deposited with the United States Postal Service as first class mail addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 on the date shown below.

Date:

6/21/05

By:

Martha Jimillo